



## Chain & Lifting Products Division

A member of the Acco Material Handling Group

Issued 8-15-88  
Supersedes 6-1-86

42-1

### SERIES 421

#### PUSH-PULL END TRUCKS FOR UNDERHUNG SINGLE GIRDER CRANES MAX. 2 TON CAP. SPAN 25 FEET



Make your own crane. Designed for light or medium loads, Series 421 Push-Pull End Trucks are the basic component for easy to assemble underhung cranes. Furnished with heat treated gray iron wheels for 2 ton maximum crane capacities with wheel base of 38 inches and spans up to 25 feet.

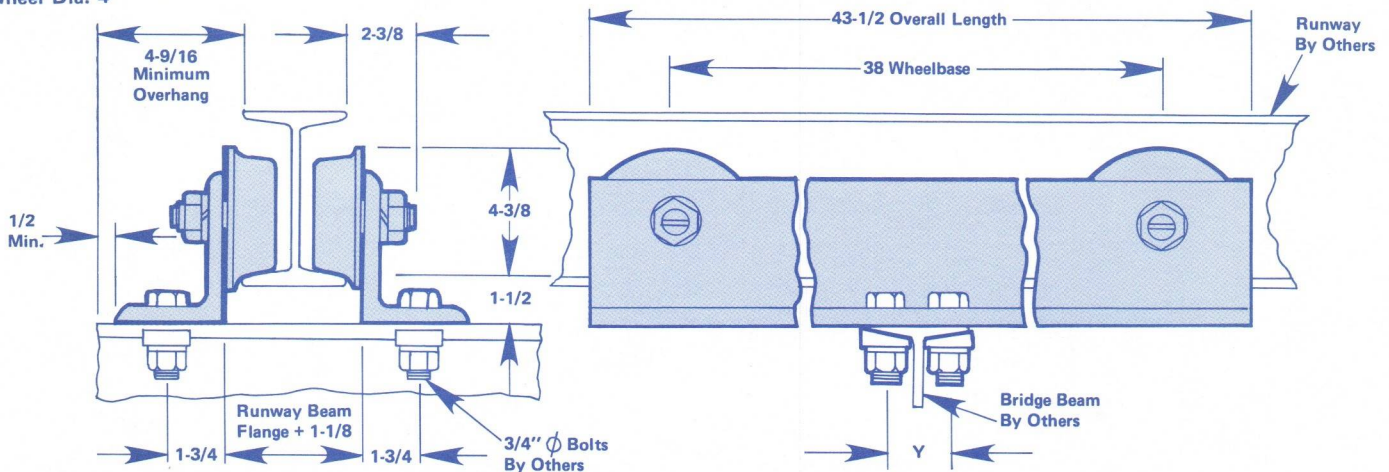
Wheels are 4" diameter, flanged, dual tread permitting operation on standard I beams or flat flange beams and adjustable through a wide range of flange widths. Wheel bearings are single row ball, lifetime lubricated and shielded.

Parts list, crane fabrication instructions and drilling template are packed with each pair of trucks.

**WARNING:** Equipment described herein is not designed for and should not be used for, lifting, supporting, or transporting humans.

Failure to comply with any one of the limitations noted herein can result in serious bodily injury and/or property damage.

Wheel Dia. 4



Cap. Tons	Product No.	Min. Size Runway Beam	Wt. in Lbs.	Max. Allowable Load on Each Wheel in lbs.
2	4210010	6	233	1200

For clearance between runway beam and bridge beam, subtract toe of runway beam from 1-1/2" dimension.

All Dimensions in inches unless otherwise noted.

**WARNING:** Only competent fabrication personnel familiar with standard fabrication practices should be employed to assemble these cranes because of the necessity of properly interpreting these instructions and for the purposes of determining appropriate compatible equipment and product applications. Acco disclaims any responsibility for the quality of workmanship employed in the fabrication of a crane according to these instructions or the sufficiency of the system in which and to which this system or equipment is to be installed or the sufficiency of the system to sustain any particular load that may be imposed upon it. Contact the Material Handling Group of Acco Babcock Inc. at 1110 East Princess Street, York, Pennsylvania 17403 for additional information if necessary.

#### CRANE FABRICATING & CLEARANCE DIMENSIONS

Cap. Tons	Span Ft.	Recommended Bridge Beams	Y
1	10	6" x 12.5 #	2
	15	8" x 18.4 #	2 1/4
	20	10" x 25.4 #	2 3/4
	25	12" x 31.8 #	3
2	10	8" x 18.4 #	2 1/4
	15	10" x 25.4 #	2 3/4
	20	12" x 31.8 #	3
	25	15" x 42.9 #	3 1/2

No optional equipment.

**NOTE:** There are no warranties which extend beyond the description on the Order Acknowledgement and as it may apply to the specifications provided in this publication. THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED. Acco shall in no event be liable for any special, direct, indirect, incidental or consequential damages to anyone beyond the cost of replacement of the goods sold hereby.



## Chain & Lifting Products Division

A member of the Acco Material Handling Group

76 Acco Drive, Box 792, York, PA 17405  
Telephone 717 741-4863 Telex 84-0412  
Fax 717 741-4521 Chain Products  
Fax 717 741-4956 Lifting Products

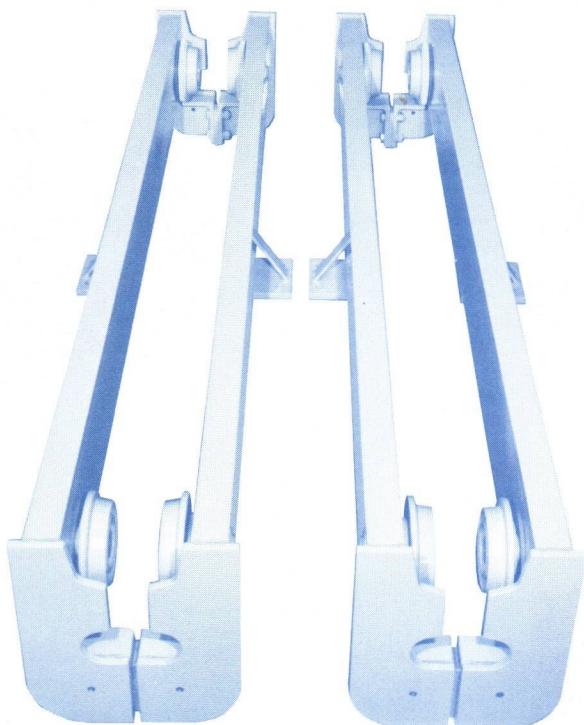


**SERIES 425** End Trucks For Underhung Single Girder Motorized  
Dual Drive/Hand Operated Cranes Capacities: ½ Ton To 10 Tons  
Span To 50 Feet

42-8

Issued 1-4-88 Supersedes 5-1-86

**1/2 to 10  
TONS**



Series 425 underhung single girder end trucks are designed for either hand operation or motorized crane applications up to 50 foot spans. They combine the versatility and experience of Acco with the economy of your own construction.

The end trucks are ruggedly constructed of structural channels jig welded and bored to provide true alignment of wheels and axles. Split truck design makes crane assembly easy without wheel or axle removal.

Four different wheel types allow these end trucks to be used for virtually any application. Wheels are available in either steel or bronze and have tapered or flat tread. All wheels are single flanged to provide minimum skewing and smooth operation. Steel wheels have hardened treads.

End truck design enables simple adjustment for use on a wide range of runway beam sizes. Girder connection pads are precision drilled and reinforced for heavy duty bolted crane construction. End plates are designed as combination drop-down lugs and rail sweeps.

Ordering end trucks, components, and structural material separately can mean considerable savings in shipping charges and time required for delivery.

Parts list and crane fabrication instructions are packed with each pair of end trucks.

**WARNING** Buyer and user warrants that the structure in which and to which this system or equipment is to be installed is adequate to sustain the loads that will be imposed on it by said system or equipment when it is operating as intended.

Product Number	Wheel Type	Cap. (Tons)	Max. Span (Ft.)	Max. End Truck Cap At Center (a)	Runway Beam Range (b)			End Truck Channel	Wheel Tread Diameter	Gear To Pinion Ratio	End Truck Weight (Pair)
					Min. Ht.	Flange Min.	Width Max.				
4250010 4250020 4250070 4250080	Tapered Steel Flat Steel Tapered Bronze Flat Bronze	2	50	11,400 lbs.	10 "	4 5/8 "	5 1/2 "	C7 x 9.8#	5 "	51:26	700 lbs.
		3	35								
4250030 4250040 4250090 4250100	Tapered Steel Flat Steel Tapered Bronze Flat Bronze	6	50	22,600 lbs.	12 "	5 "	6 1/4 "	C9 x 13.4#	6 "	59:26	1,000 lbs.
		7 1/2	15								
4250050 4250060 4250110 4250120	Tapered Steel Flat Steel Tapered Bronze Flat Bronze	10	50	32,500 lbs.	15 "	5 1/2 "	7 "	C10 x 20.0#	8 "	78:26	1,500 lbs.

(a) End truck loads must include:

1. Live load impact allowance of ½ % of lifting speed in FPM, but not less than 15% when used with electric powered hoist.
2. Dead load impact allowance of 10% (includes weight of crane, hoist and attachments).

(b) End trucks can be furnished for larger runway beams upon request.

**END TRUCK KIT CONTAINS THE FOLLOWING:**

- 2 End Trucks with pinions
- Crane Bridge Girder Attaching Hardware
- 1 Crane Building Instruction and Parts List Manual

**OPTIONAL EQUIPMENT FOR MOTORIZED DUAL DRIVE/  
HAND OPERATED CRANE**

The descriptions and product numbers for the following equipment are found in Section 45-1 through 45-4.

1. Reducer kit
2. Motor and brake kits
3. Control kits
4. Disconnect switch
5. Flatwire festoon tagline electrification
6. Bumper kit

**WARNING** Only competent fabrication personnel familiar with standard fabrication practices should be employed to assemble these cranes because of the necessity of properly interpreting these instructions and for the purposes of determining appropriate compatible equipment and product applications. Acco disclaims any responsibility for the quality of workmanship employed in the fabrication of a crane according to these instructions or the sufficiency of the system in which and to which this system or equipment is to be installed or the sufficiency of the system to sustain any particular load that may be imposed upon it. Contact the Acco Chain and Lifting Products Division at 76 Acco Drive, York, Pennsylvania 17402 for additional information if necessary.

**NOTE:** There are no warranties which extend beyond the description on the Order Acknowledgement and as it may apply to the specifications provided in this publication. THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED. Acco shall in no event be liable for any special, direct, indirect, incidental or consequential damages to anyone beyond the cost of replacement of the goods sold hereby.

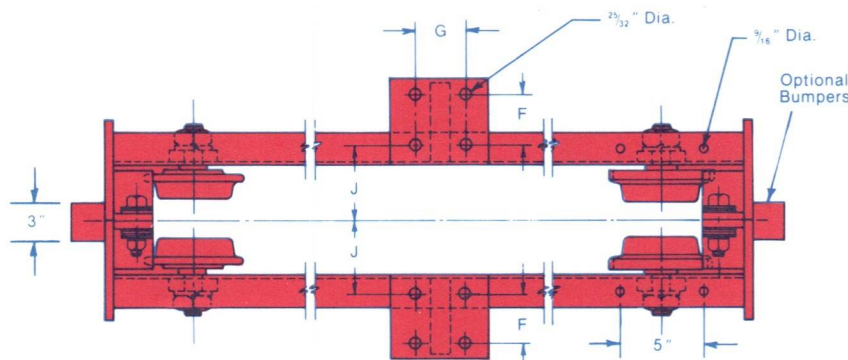
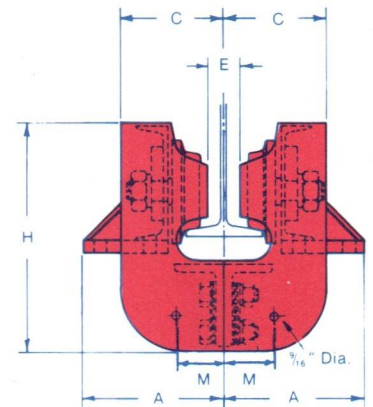
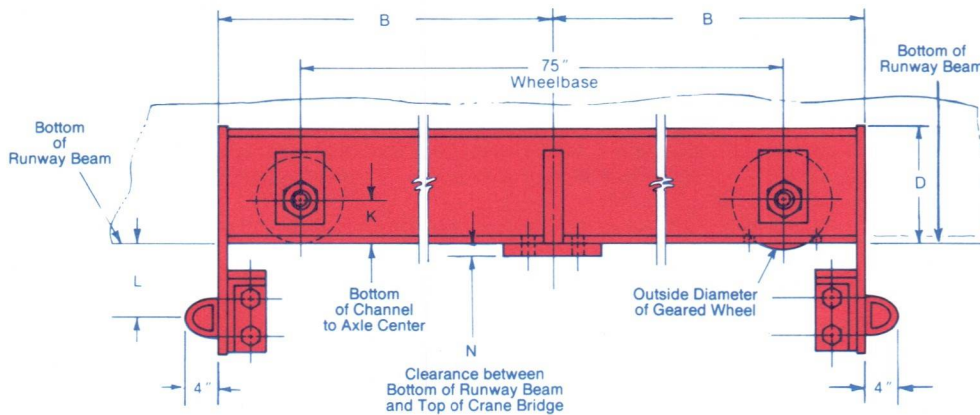




# SERIES 425 End Trucks For Underhung Single Girder Motorized Dual Drive/Hand Operated Cranes

42-9 Issued 1-4-88

# 1/2 to 10 TONS



Product Number	A (a)	B	C (a)	D (a)	E (a)	F	G	H	J (a)	K	L (a)	M (a)	N (a)
4250010													
4250020	8 3/4"	43"	6 1/4"	7 1/4"	2"	3"	3"	13 7/8"	4 11/16"	2 7/8"	3 3/4"	2 13/16"	3/4"
4250070													
4250080													
4250030													
4250040	9 7/8"	43"	7 1/8"	9 1/4"	2 1/4"	3 1/2"	3 1/2"	17 1/4"	5 1/4"	3 3/8"	4 3/8"	2 7/8"	3/4"
4250090													
4250100													
4250050													
4250060	10 5/8"	43 7/8"	7 5/8"	10 1/4"	2"	3 1/2"	3 3/4"	17 7/8"	5 13/16"	4 1/2"	4 1/4"	2 7/8"	3/4"
4250110													
4250120													

(a) Dimension shown for minimum runway beam size.  
Dimensions approximate.

**Warning** Equipment described herein is not designed for, and should not be used for lifting, supporting, or transporting humans. Modifications to upgrade, rerate, or otherwise alter the hoist or crane equipment shall be authorized only by the original manufacturer or qualified professional engineer. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.



## Acco Chain & Lifting Products Division

A member of the Acco Material Handling Group

76 Acco Drive, P.O. Box 792, York, PA 17405  
Telephone 717 741-4863  
FAX 717 741-4956 Telex 84-0412

12140 Bellflower Blvd., Downey, CA 90241  
Telephone 213 862-8101  
FAX 213 862-4382

0188 5M TP  
Printed in USA  
©Acco







**SERIES 430** Motor Driven/Hand Operated End Trucks For Top Running, Single Girder Cranes

43-2 Issued 1-4-88

**1 to 10  
TONS**

**END TRUCK KIT CONTAINS THE FOLLOWING:**

- 2 End Trucks with
- 2 Pinions
- 2 square keys 5/16" x 5/16" x 1" long
- 1 Crane Building Instruction and Parts List Manual

**OPTIONAL EQUIPMENT FOR HAND OPERATED CRANES**

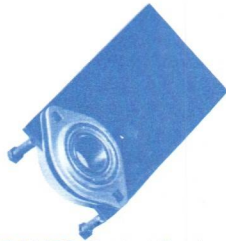


**HAND GEARED KIT**, Product Number 6432030 consisting of

- 2 End truck bearings
- 1 Handwheel
- 1 Floating guard
- 1 set collar
- Miscellaneous attaching hardware

**HAND CHAIN**, Product No. 6100040

Specify length; should be twice the distance from the runway rail to floor. Bottom elevation of hand chain drop should be 24 inches above the floor.



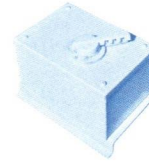
**BEARING AND SUPPORT PLATE**, Product Number 6432040

Must be used every 10 feet of crane's span to support bearing shaft.



**SHAFT COUPLINGS**, Product Number 6402010

Required at drive shaft splices. Requirements for sleeve coupling depends on connections necessary. Coupling consists of shaft coupling, square key, and two set screws.



**MANUAL DISCONNECT SWITCH**

If hoist is electric powered, a manual disconnect is required to meet O.S.H.A./N.E.C. compliance on hand operated cranes and can be found in Section 45, Motorized Dual Drive Components. For wiring information, refer to Acco standard bridge and runway electrification pages.

**Optional equipment for motorized dual drive crane**

The descriptions and product numbers for the following equipment are found in Section 45-1 through 45-4 for Motorized Dual Drive Components:

1. Reducer kits
2. Motor and brake kits
3. Control kits
4. Disconnect switch
5. Flatwire festoon tagline electrification

**WARNING:** Only competent fabrication personnel familiar with standard fabrication practices should be employed to assemble these cranes because of the necessity of properly interpreting these instructions and for the purposes of determining appropriate compatible equipment and product applications. Acco disclaims any responsibility for the quality of workmanship employed in the fabrication of a crane according to these instructions or the sufficiency of the structure in which and to which this system or equipment is to be installed or the sufficiency of the system to sustain any particular load that may be imposed upon it. Contact the Acco Chain and Lifting Products Division at 76 Acco Drive, York, Pennsylvania, for additional information if necessary.

**NOTE:** There are no warranties which extend beyond the description on the Order Acknowledgement and as it may apply to the specifications provided in this publication. **THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED.** Acco shall in no event be liable for any special, direct, indirect, incidental or consequential damages to anyone beyond the cost of replacement of the goods sold hereby.



## **Acco Chain & Lifting Products Division**

A member of the Acco Material Handling Group

76 Acco Drive, P.O. Box 792, York, PA 17405  
Telephone 717 741-4863  
FAX 717 741-4956 Telex 84-0412

12140 Bellflower Blvd., Downey, CA 90241  
Telephone 213 862-8101  
FAX 213 862-4382

0188 5M TP  
Printed in USA  
©Acco





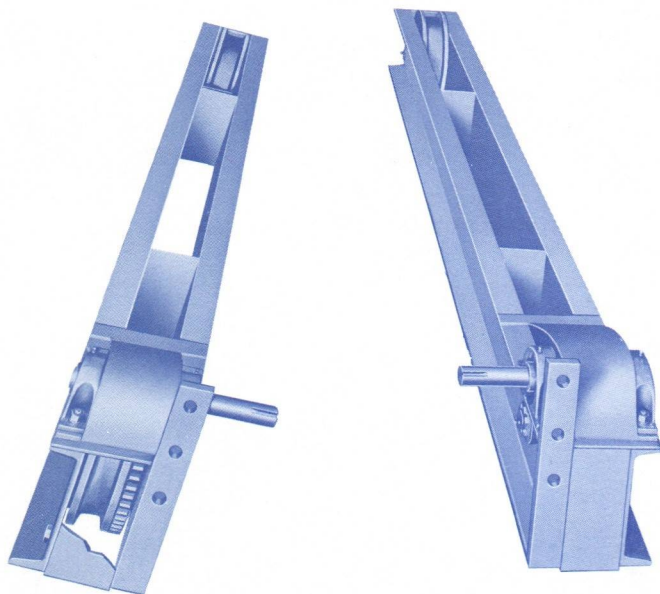
# Chain & Lifting Products Division

Issued 6-1-86  
Supersedes 3-1-85

43-3

## WORK-RATED®

### SERIES 434 MOTOR DRIVEN END TRUCKS FOR TOP RUNNING SINGLE GIRDER CENTER DRIVE CRANES CAPACITIES: 1 TO 10 TONS SPANS TO 50 FEET



Series 434 top running, single girder, end trucks are designed for motorized center driven crane applications up to 50 foot spans. They combine the versatility and experience of Acco with the economy of your own construction.

The end trucks are of welded steel channel construction, equipped with diaphragms, jig welded and bored to provide alignment of wheels, axles and drive shaft. Wheel and gear replacement is accomplished without dismantling end trucks because of easy-to-remove axle. Rail sweeps are standard equipment.

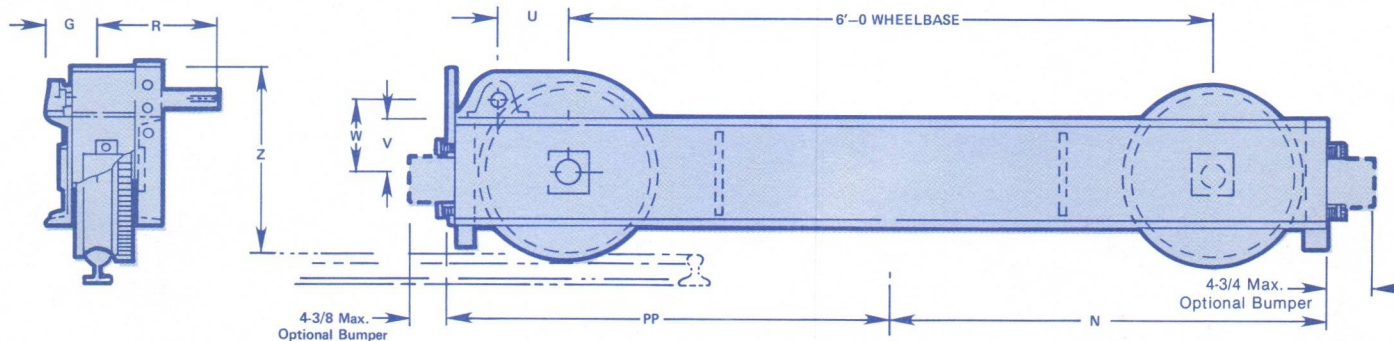
The end truck wheels are hardened steel double flanged with tapered treads which align and center the bridge on runway rails, resulting in uniform travel and reduced flange wear. All end truck wheels are equipped with prelubricated, tapered roller bearings, two to each wheel.

Ordering end trucks, components, and structural material separately can mean considerable savings in shipping charges and time required for delivery.

Parts list and crane fabrication instructions are packed with each pair of trucks.

**WARNING:** Equipment described herein is not designed for and should not be used for, lifting, supporting, or transporting humans.

Failure to comply with any one of the limitations noted herein can result in serious bodily injury and/or property damage.



Product Number	Cap Tons	Max. Span. Ft.	Max. Truck Cap. at center between wheels (a) lbs.	End Truck Channel	Wheel Tread Dia.	G	N	PP	R	U	V	W	Z	Drive Shaft Dia.	Gear to Pinion Ratio	Rev. of Shaft per Ft. of Crane Travel	Net Wt. Per Pair Lbs.
4340010	1-3 4	50 20	11,900	8x11.5#	10	4-3/4	3'-9-1/2	3'-9-7/8	9-11/16	4	4	5-7/8	12-7/8	1-1/4	56:15	1.427	910
4340020	6 7-1/2	50 20	19,900	10x15.3#	12	5-1/8	3'-9	3'-9-3/8	9-11/16	3-13/16	5	6-15/16	15-3/4	1-1/2	64:15	1.359	1175
4340030	10	50	33,400	12x20.7#	18	5-3/4	4'-1	4'-1-1/2	9-11/16	7-3/4	6	7-15/16	20	1-1/2	96:15	1.359	2000

Maximum 60 #/Yd rail.

(a) End truck loads must include a live load impact allowance of 1/2% of lifting speed in FPM, but not less than 15% when used with electric powered hoist.

End Truck Kit contains the following:

- 2 End Trucks with
- Rail sweeps
- Outrigger support brackets
- Stub shafts w/ pinions
- End truck pillow block bearings
- Crane building instructions and parts list

All dimensions in inches unless otherwise noted.

#### OPTIONAL EQUIPMENT FOR MOTORIZED CENTER DRIVEN CRANES

The descriptions and product numbers for the following equipment are found in Section 45-5 through 45-12 for Motorized Center Drive Components:

1. Reducer and motor
2. Control kits
3. Disconnect switch
4. Flatwire festoon tagline electrification
5. Couplings and pillow blocks

**1 to 10  
TONS**

**WORK-RATED® SERIES 434 END TRUCKS  
FOR TOP RUNNING SINGLE GIRDER MOTOR DRIVEN CRANES  
CENTER DRIVE**

43-4

**WARNING:** Only competent fabrication personnel familiar with standard fabrication practices should be employed to assemble these cranes because of the necessity of properly interpreting these instructions and for the purposes of determining appropriate compatible equipment and product applications. Acco disclaims any responsibility for the quality of workmanship employed in the fabrication of a crane according to these instructions or the sufficiency of the system in which and to which this system or equipment is to be installed or the sufficiency of the system to sustain any particular load that may be imposed upon it. Contact Acco at 76 Acco Drive, P.O. Box 792, York, PA 17405 for additional information if necessary.

**NOTE:** There are no warranties which extend beyond the description on the Order Acknowledgement and as it may apply to the specifications provided in this publication. THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED. Acco shall in no event be liable for any special, direct, indirect, incidental or consequential damages to anyone beyond the cost of replacement of the goods sold hereby.



**Chain & Lifting Products Division**

A member of the Acco Material Handling Group

76 Acco Drive, P.O. Box 792, York, PA 17405  
Telephone 717 741-4863  
FAX 717 741-4956 Telex 84-0412





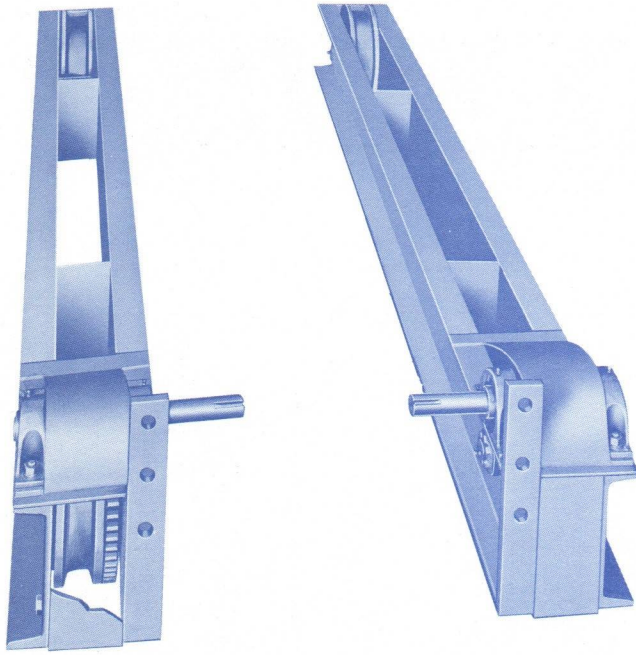
# Chain & Lifting Products Division

Issued 6-1-86  
Supersedes 3-1-85

44-1

## WORK-RATED®

### SERIES 444 MOTOR DRIVEN END TRUCKS FOR TOP RUNNING DOUBLE BEAM CRANES CAPACITIES: 1½ TO 10 TONS SPANS TO 60 FEET



Series 444 top running, double girder, end trucks are designed for motorized center driven crane applications up to 60 foot spans. They combine the versatility and experience of Acco with the economy of your own construction.

The end trucks are of welded steel channel construction, equipped with diaphragms, jig welded and bored to provide alignment of wheels, axles and drive shaft. Wheel and gear replacement is accomplished without dismantling end trucks because of easy-to-remove axle. Rail sweeps are standard equipment.

The end truck wheels are hardened steel double flanged with tapered treads which align and center the bridge on the runway rails, resulting in uniform travel and reduced flange wear. All end truck wheels are equipped with prelubricated, tapered roller bearings, two to each wheel.

Ordering end trucks, components, and structural material separately can mean considerable savings in shipping charges and time required for delivery.

Parts list and crane fabrication instructions are packed with each pair of trucks.

**WARNING:** Equipment described herein is not designed for, and should not be used for lifting, supporting, or transporting humans.

Failure to comply with any one of the limitations noted herein can result in serious bodily injury and/or property damage.

End Truck	Cap. (Tons)	Max. Span (Ft.)	Max. Truck <sup>(a)</sup> Cap. (Lbs.)	Wheel Base	Beam Spacing	End Truck Channel	Wheel Tread Dia.	Drive Shaft Dia.	Gear to Pinion Ratio
4440010	1½-6	50	25,800	7'-8	5'-0	8 x 11.5 #	12	1½	64:15
	7½	45							
	10	15							
4440020	7½-10	50	38,300	7'-8	5'-0	10 x 15.3 #	18	1½	96:15
4440030	10	50	38,300	9'-2	6'-6	10 x 15.3 #	18	1½	96:15
4440040	1½-6	60	25,800	9'-2	5'-0	10 x 15.3 #	12	1½	64:15
4440050	10	60	38,300	9'-2	5'-0	12 x 20.7 #	18	1½	96:15
4440060	10	60	38,300	9'-2	6'-6	12 x 20.7 #	18	1½	96:15

(a) End truck loads must include a live load impact allowance of 1/2% of lifting speed in FPM, but not less than 15% when used with electric powered hoist.

**WARNING:** Only competent fabrication personnel familiar with standard fabrication practices should be employed to assemble these cranes because of the necessity of properly interpreting these instructions and for the purposes of determining appropriate compatible equipment and product applications. Acco disclaims any responsibility for the quality of workmanship employed in the fabrication of a crane according to these instructions or the sufficiency of the system in which and to which this system or equipment is to be installed or the sufficiency of the system to sustain any particular load that may be imposed upon it. Contact Acco at 76 Acco Drive, P.O. Box 792, York, PA 17405 for additional information if necessary.

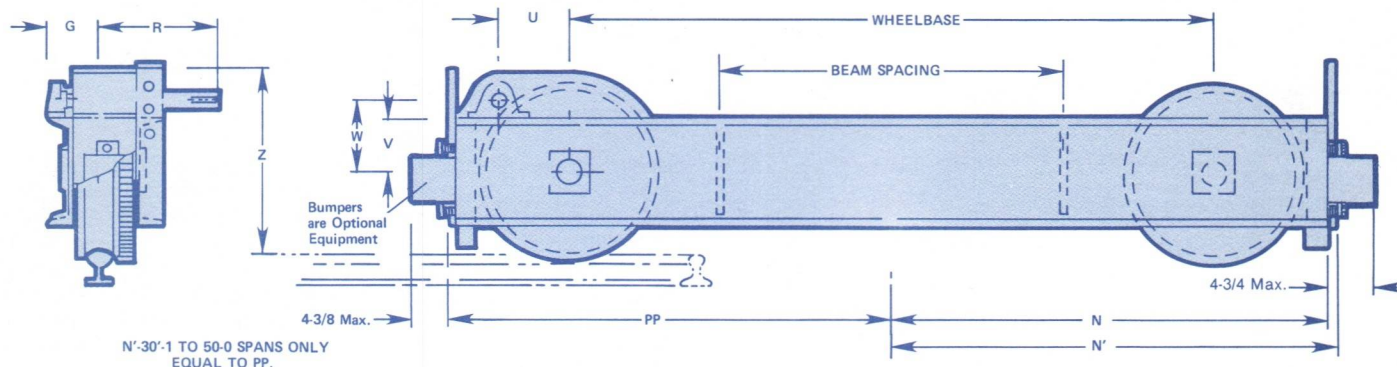
**NOTE:** There are no warranties which extend beyond the description on the Order Acknowledgement and as it may apply to the specifications provided in this publication. THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED. Acco shall in no event be liable for any special, direct, indirect, incidental or consequential damages to anyone beyond the cost of replacement of the goods sold hereby.



# 1-1/2 to 10 TONS

## WORK-RATED® SERIES 444 END TRUCKS FOR TOP RUNNING DOUBLE GIRDER MOTOR DRIVEN CRANES CENTER DRIVE

44-2



### DIMENSIONS

End Truck	G	N	PP	R	U	V	W	Z	Rev. of Drive Shaft Per Ft. Crane Travel	Net Wt. Per Pair (Lbs.)
4440010	4-3/4	4'-8-3/4	4'-9-1/4	9-5/8	5-1/4	4	5-15/16	14-5/8	1.357	1240
4440020	5-1/2	5'-0	5'-0-1/2	9-7/8	8-11/16	5	6-15/16	18-5/8	1.357	2120
4440030	5-1/2	6'-0	6'-0-1/2	9-7/8	8-11/16	5	6-15/16	18-5/8	1.357	2212
4440040	5-1/8	6'-1	6'-1	9-5/8	3-13/16	5	6-15/16	15-3/4	1.357	1556
4440050	5-3/4	6'-6	6'-6	9-7/8	7-3/4	6	7-15/16	20	1.357	2564
4440060	5-3/4	6'-6	6'-6	9-7/8	7-3/4	6	7-15/16	20	1.357	2564

Maximum 60 # /yd. rail.

End Truck Kit contains the following:

- 2 End Trucks with rail sweeps
- Outrigger support brackets
- Stub shafts with pinions
- End truck pillow block bearings
- Crane building instructions and parts list

### OPTIONAL EQUIPMENT FOR MOTORIZED CENTER DRIVE CRANE

The descriptions and product numbers for the following equipment are found in Section 45-5 through 45-12 for Motorized Center

Drive Components:

1. Reducer and Motor kits
2. Control kits
3. Disconnect switch
4. Flatwire festoon tagline electrification
5. Couplings and pillow blocks

All dimensions in inches unless otherwise noted.



## Chain & Lifting Products Division

A member of the Acco Material Handling Group

76 Acco Drive, P.O. Box 792, York, PA 17405  
Telephone 717 741-4863  
FAX 717 741-4956 Telex 84-0412

© Acco 1988  
5M AP Printed in U.S.A.